



CLAIMS:

1. (Cancelled)
2. (Cancelled)
3. (Original) A method for treatment of a condition associated with breakdown of the blood brain barrier comprising administering to a subject in need of such treatment, a pharmaceutically effective amount of a peptide antagonist of zonulin, wherein said peptide antagonist comprises amino acid sequence SEQ ID NO:35, wherein said peptide antagonist binds to zonula occludens toxin receptor in the brain of said subject, yet does not physiologically modulate the opening of tight junctions in said brain.
4. (Previously presented) The method of claim 3 wherein the condition is cerebral ischemia.
5. (Previously presented) The method of claim 3 wherein the condition is stroke or cerebral edema.
6. (Previously presented) The method of claim 3 wherein the condition is hypertension.
7. (Previously presented) The method of claim 3 wherein the condition is convulsive seizure.
8. (Previously presented) The method of claim 3 wherein the condition is uremia.
9. (Previously presented) The method of claim 3 wherein the condition is meningitis.
10. (Previously presented) The method of claim 3 wherein the condition is encephalitis.
11. (Previously presented) The method of claim 3 wherein the condition is encephalomyelitis.
12. (Previously presented) The method of claim 3 wherein the condition is traumatic brain injury.
13. (Previously presented) The method of claim 3 wherein the condition is radiation brain injury.
14. (Previously presented) The method of claim 3 wherein the condition is multiple sclerosis.

15. (Previously presented) The method of claim 3 wherein the condition is or  
Guillain-Barre Syndrome.

16. -28. (Cancelled)